

We claim:

1. A cross platform administrative framework configured to manage administrative services in a service system, the administrative framework comprising:

a system administrative subsystem operationally coupled to an administrative service interface and configured to provide an entry point into the administrative framework and perform at least one administrative function including initialization of administrative services and invocation of at least one service associated with performing administrative services;

a data management subsystem, the data management subsystem including at least one device data manager implemented as a layer on a framework-specific database, configured as a persistent service and configured to provide data retrieval and storage functionality, handle all device related data actions; and

an event service framework configured to enable transmission of events without the supplier of the event being required to know the consumers of the event.,

wherein the administrative framework is not operating system specific.

2. The administrative framework of claim 1, further comprising a fault detection subsystem including:

a fault detector proxy loader component configured to initiate fault detection proxies, monitor the event service system and start up fault detectors; and

a fault detector proxy component configured to start up during system startup, control a fault monitoring startup, monitor processor faults and TDM bus faults, communicate these faults to other components in the administrative framework 100 via the event service framework and monitor processor faults when triggered by the system administrative subsystem.

3. The administrative framework of claim 1, further comprising a device detection framework configured to detect devices and store device information in the framework-specific database, the device detection framework including a device detector service, at least one device detector factory and a device detector controller, the device detector service being configured to provide an interface for the detector controller to initiate device detection, the detector service being configured to detect present devices and updating the framework-specific database.

4. The administrative framework of claim 1, further comprising a live insertion and removal subsystem including a live insertion or removal observer configured to manage live, device insertion and removal and notify at least one other component of the administrative framework by sending an event through the event service provided by the event service framework.

5. The administrative framework of claim 1, wherein the system administration subsystem includes a mechanism to manage both system startup and shutdown, the mechanism being configured to control the event service system.

6. The administrative framework of claim 1, wherein the administrative framework uses Common Object Request Broker Architecture as a software backend architecture and Common Object Request Broker Architecture specification standards to create, distribute and manage distributed program objects.

7. The administrative framework of claim 6, wherein an Object Request Broker

manages service requests for a service associated with the administrative framework.

8. The administrative framework of claim 1, wherein the administrative framework is configured to provide extensible, generic frameworks to perform administrative functions and architectural mechanisms for administrative software configured to perform at least one of administration, configuration, system initialization, fault monitoring and event notifications in a system for providing at least one service.

9. The administrative framework of claim 1, wherein the administrative framework is configured to provide cross platform solutions for system initialization, configuration, management and fault monitoring for a service system.

10. The administrative framework of claim 1, in combination and coupled to an administrative service interface language independent layer configured to use an interface definition language.

11. The administrative framework of claim 10, wherein the administrative system interface is coupled to at least one language-specific interface including a C++ interface, an eXtensible Markup Language interface, a C interface or a Java interface.

12. The administrative framework of claim 11, wherein the at least one language-specific interfaces is configured to provide a mechanism for communication between the administrative system interface and a customer administration application.

13. An event service system comprising:

an administrative framework utilizing CORBA interfaces;

an administrative system interface coupled to the administrative framework;
at least one language-specific interface coupled to the administrative system interface and configured to provide a mechanism for communication between the administrative system interface and a customer administration application;

wherein the administrative system interface is configured to enable clients to manage the event service system, and

wherein the administrative framework includes:

a system administrative subsystem operationally coupled to the administrative service interface and configured to provide an entry point into the administrative framework and perform at least one administrative function including initialization of administrative services and invocation of at least one service associated with performing administrative services;

a data management subsystem, the data management subsystem including at least one device data manager implemented as a layer on a framework-specific database, configured as a persistent service and configured to provide data retrieval and storage functionality, handle all device related data actions; and

an event service framework configured to enable transmission of events without the supplier of the event being required to know the consumers of the event.

14. The event service system of claim 13, wherein the administrative system interface is configured to allow a client to interact with the event service system without dealing with CORBA interfaces utilized by the administrative framework.

15. The event service system of claim 13, wherein the administrative system interface is configured to provide a mechanism to at least one of specify and retrieve configuration

attributes for devices, start and stop the service system and retrieve and specify time slot information.

16. The event service system of claim 13, wherein the administrative framework is coupled to at least one tool from the list consisting of an ORB, Java threads, an XML parser, and a Ramia Database.

17. The event service subsystem of claim 13, wherein the administrative framework further comprises a fault detection subsystem including:

a fault detector proxy loader component configured to initiate fault detection proxies, monitor the event service system and start up fault detectors; and

a fault detector proxy component configured to start up during system startup, control a fault monitoring startup, monitor processor faults and TDM bus faults, communicate these faults to other components in the administrative framework via the event service framework and monitor processor faults when triggered by the system administrative subsystem.

18. The event service system of claim 13, wherein the administrative framework further comprises a device detection framework configured to detect devices and store device information in the framework-specific database, the device detection framework including a device detector service, at least one device detector factory and a device detector controller, the device detector service being configured to provide an interface for the detector controller to initiate device detection, the detector service being configured to detect present devices and updating the framework-specific database.

19. The event service system of claim 13, wherein the administrative framework further comprises a live insertion and removal subsystem including a live insertion or removal observer configured to manage live, device insertion and removal and notify at least one other component of the administrative framework by sending an event through the event service provided by the event service framework.

20. The event service system of claim 13, wherein the system administration subsystem includes a mechanism to manage both system startup and shutdown, the mechanism being configured to control the event service system.

21. The event service system of claim 13, wherein the administrative framework maintains system initialization and configuration data.